

Work Order ID 94531

94531

Page 1

December-19-12 11:38:49 AM

Item ID: D3937-1 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Luminescent Strip
 Start Date: 12/19/12 Start Qty: 16.00 Cust Item ID:
 Required Date: 12/19/12 Req'd Qty: 16.00 Customer:
 Reference:

Approvals: Process Plan: MLJ Date: 12-12-20 Tooling: Date:
 QC: Date: SPC (Y/N): Date:
 Run Start *NR1*
 Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D3937	B

100		0.00							
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>18705</u>								
	Purchase Part Number: PL88-990LH00								
	Supplier: LUFTHANSA TECHNIK								
	Certificate of conformity is required								

110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	0.00							
Packaging	Ensure material certification is attached								

120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							
Quality Control									

32 PCS.
~~*18*~~
~~*18*~~

CL 13/01/04 30

43/04/18 (32)

DAS
 15
 13-1-18

32
 count

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY									
Landing Gear			General						
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain	<input type="checkbox"/> Ovalized	<input type="checkbox"/> Pressure/Forced					
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware	<input type="checkbox"/> Over/Under tolerance	<input type="checkbox"/> Temperature/Cure					
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete	<input type="checkbox"/> Part Incorrect	<input type="checkbox"/> Weld					
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Part Lost/Missing	<input type="checkbox"/> Wrong Stock Pulled					
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Part Moved						
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misabeled	<input type="checkbox"/> Positioned Wrong						
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread	<input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Other					
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset							
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration							
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence							
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions							

Work Order ID 94531***94531***

Page 2

December-19-12 11:38:49 AM

Item ID: D3937-1

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Luminescent Strip

Start Date: 12/19/12 Start Qty: 16.00

16

Cust Item ID:

Required Date: 12/19/12 Req'd Qty: 16.00

16

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <i>ST</i>	0.00							
130									
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

*13/01/18 (32)**13/01/22 JF*
*mc**13-1-18*

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
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Equip/Tooling <input type="checkbox"/>											
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Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY									
Landing Gear			General						
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain	<input type="checkbox"/> Ovalized	<input type="checkbox"/> Pressure/Forced					
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<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete	<input type="checkbox"/> Part Incorrect	<input type="checkbox"/> Weld					
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Part Lost/Missing	<input type="checkbox"/> Wrong Stock Pulled					
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<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread	<input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Other					
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset							
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration							
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence							
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions							

Picklist Print

December-19-12 11:38:48 AM

Page 1

Work Order ID: 94531

Parent Item: D3937-1

Parent Item Name: Luminescent Strip

Start Date: 12/19/12

Required Date: 12/19/12

Start Qty: 16.00

Required Qty: 16.00

Comments: IPP RevA: New issue DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
PL88-990LH00 Luminescent Strip		Purchased	No			110	Each	0.0000	1	16 32			

43/01/18 (32)

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
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Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											
FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other		

ITEM	QTY	P/N	DESCRIPTION
1	X	D3937-041	LUMINESCENT STRIP ASSEMBLY
2	1	D3937-1	LUMINESCENT STRIP
3	1	D3937-3	SHEET METAL BACKING STRIP

PEEL SELF-ADHESIVE BACKING FROM
D3937-1 LUMINESCENT STRIP.
ALIGN PART EDGES AND STICK TO
D3937-3 SHEET METAL BACKING STRIP

D3937-041 LUMINESCENT STRIP ASSEMBLY

SHOULDER
RETURN TO
ENGINEER
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITH NO EFFECT
V. K. K. K. K.
94531 MLS
12-12-20

RELEASED
2009-12-02
MD

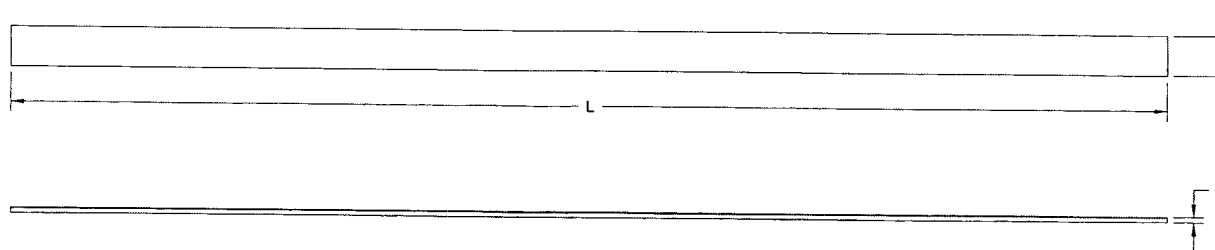
NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3937-041" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.06 lbs

B	SHEET 2 SPEC CHART LENGTH WAS 21.0. SHEET 3 ZONE CS 19.5 DIM WAS 21.0 REASON: PREVENT EXCESSIVE WASTE.	AJS	09.11.27
A	NEW ISSUE		09.06.02
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN	AJS		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.11.27		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D3937 REV. B SHEET 1 OF 3 TITLE LUMINESCENT STRIP SCALE NTS <small>COPYRIGHT © 2009 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESSED CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR DISSEMINATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>			

SPECIFICATION CONTROL DRAWING

94531



D3937-1 LUMINESCENT STRIP

DART PART NUMBER	LENGTH "L"	WIDTH "W"	THICKNESS "T"	SUPPLIER	SUPPLIER PART NUMBER	WEIGHT
D3937-1	19.5	0.67	0.09	LUFTHANSA TECHNIK	PL88-990LH00	0.04 LBS

△B

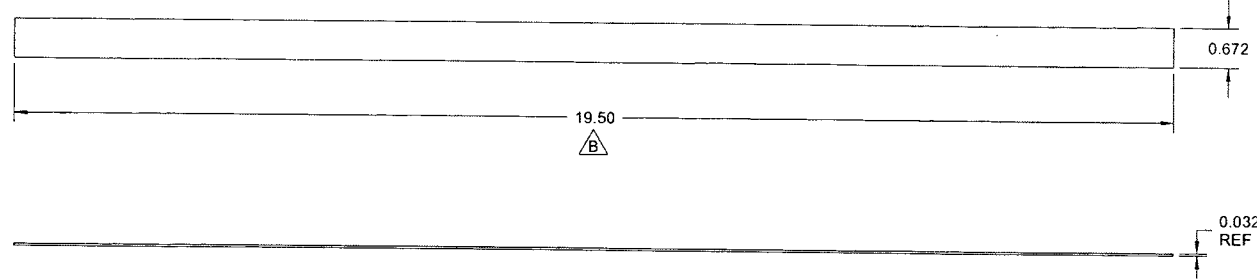
RELEASED
2009-12-02

- NOTES:
- 1) MATERIAL: SEE TABLE
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: SEE TABLE

DESIGN		DART AEROSPACE LTD
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. D3937 REV. B
MFG. APPR.		SHEET 2 OF 3
APPROVED		TITLE LUMINESCENT STRIP SCALE NTS
DE APPR.		
DATE	09.11.27	

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94531



D3937-3 SHEET METAL BACKING STRIP

RELEASED
2009-12-02

- NOTES:**
- 1) MATERIAL: 6061-T6 (OR 6061-T62) ALUMINUM SHEET 0.032 THICK
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
REF DART SPEC M6061T6S.032
 - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 0.02 lbs

DESIGN		DART AEROSPACE LTD
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. D3937 REV. B
MFG. APPR.		SHEET 3 OF 3
APPROVED		TITLE LUMINESCENT STRIP SCALE NTS
DE APPR.		
DATE	09.11.27	

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO18705**

Purchase Order Date 1/04/13

PO Print Date 1/04/13

Page Number 1 of 1

Order From :

VU-LUF001

LUFTHANSA TECHNIK AG
P.O. BOX 7247 - 0006739
PHILADELPHIA, PA 19170 - 0006739
USA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

+49 40 5070 60430

+49 40 5070 61543

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
2/3/13

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	PL88-990LH00	Luminescent Strip	1/18/13 Yes	32.00 Each	FedEx PI collect	\$140.6200	\$4,499.84

Special Inst: AS PER DWG D3937 REV. B
B94531
P/N: PL88-990LH00

32 PCS CUT AT 19.5"

PO Total:

\$4,499.84

CERTIFICATE OF CONFORMITY
REQ'D UPON DELIVERY

Change Nbr:

1

Change Date: 1/04/13

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required **YES** NO

Lieferschein / Packing Slip



Lufthansa Technik

1 ea Guideline ColourFit Ship Set
for DART Aerospace LTD

PO 18705

Description: Luminescent Strip

Lieferanschrift:

Dart Aerospace LTD

1270 Aberdeen Street
Hawkesbury, ON K6A 1K7

Canada

Ship Set includes:

Partnummer	QTY
PL88-990LH00 (19,5")	32

Delivery Note



Lufthansa Technik

14.01.2013

Page 1 of 1

SHIPPER

Lufthansa Technik AG
Weg beim Jäger 193
DE-22335 Hamburg

MURAWSKI
HAM WI43
+ 49
40-5070-65058

Shipment No.**52030058752****Consignee's Name and Address**

DART AEROSPACE LTD
1270 ABERDEEN
CA - K6A 1K7 HAWKESBURY

Shipping Information

Customs status X
Incoterm FCA HAM
Destination
DERAC-No. DE/RA/00777-04/0215 SPX KC


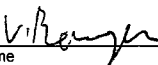

No of Pieces	Gross weight kg	Description of Packing
1	1,20	1 carton / 1.20 KG / 55x7x7CM
POS Material-/Partnummer		Description
1	PL88-990LH00:C1008 32,000 EA Ser.No.: Condition: 1 Your Reference: ZID: 306784387 Note: Dart PO:PO18705	GALLEY # GALLY LIGHT PHOTOLUMINESCENT

Confirmation:

The material has been obtained from a Lufthansa Technik approved source.

We confirm that the parts were not obtained from any U.S. Government or U.S. Military sources. The parts have not been subjected to extreme stress or heat (as in major engine failure, accident or fire) to the best of our knowledge and while in possession of Lufthansa Technik unless otherwise indicated.

This document was issued electronically and is therefore valid without signature.

1. Country Germany	2. Certificate of Conformity					3. Certificate Ref. No. 18705
4. Organisation  Lufthansa Technik			Lufthansa Technik AG Weg beim Jäger 193 P.O. Box 630300 D-22313 Hamburg Federal Republic of Germany		5. Work Order/Contract/Invoice 18705	
6. Item	7. Description	8. Part No.	9. Eligibility (1*)	10. Qty.	11. Serial/Batch No.	12. Status/ Work
01	Guideline AC/MSN Dart Helicopter	P/N Ship Set: 19,5" Shipset	unknown	1	N/A	new
13. Specification/Remarks Manufactured in accordance Dwg No.: D3937 Rev.B Dwg issue: Rev B Sheet 1-3 Shelf life 6 years						
14. Signature 		15. ID-Stamp 405737 		18. Statement Certifies that the part(s) specified above conform(s) with the specification in box 13 and is (are) new.		
16. Name Björn von Bargaen WO 481		17. Date /dd/mm/yy. 14.01.2013				

(1*) Installer must determine installation eligibility